

Date: Monday, 6/5/2006 7:45:48 AM  
 User: Kim Johnston

## Process Sheet

Customer : CU-DAR001 Dart Helicopters Services Drawing Name : 350 SKIDTUBE ASSEMBLY RH  
 Job Number : 27353  
 Estimate Number : 10268  
 P.O. Number : N/A Part Number : D350636014  
 This Issue : 6/5/2006 S.O. No. : N/A Drawing Number : D2750 REV D  
 Prsht Rev. : NC Project Number : N/A  
 First Issue : N/A Type : LANDING GEAR Drawing Revision : D  
 Previous Run : 27352 Material : N/A  
 Written By : *SPR, COMMENT BELOW* Due Date : 6/30/2006 Qty: 1 Um: Each  
 Checked & Approved By : *06.06.05*  
 Comment : Est Rev: H 02.09.25 Rearranged procedure steps: KJ  
 Est Rev: I 05.12.08 Rearranged procedure steps: EC  
 Est Rev: J 06.03.30 Per rev. D EC

## Additional Product

Job Number:



Seq. #: Machine Or Operation: Description :

1.0

DC

DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Photocopy blue file and type labels per PPP D3506-014 CHG 002

*KJ 06.06.19* ①

2.0

D26003BENT

Bent



Comment: Qty: 1.0000 Each(s) Unit: Total: 1.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

1 D2600-3-Bent

Extrusion (Bent)

Batch

*06.06.08* ①

3.0

D2744

Fwd Cap



Comment: Qty: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Cap

Batch:

*06.06.09* ①

4.0

LANDING GEAR 1

LANDING GEAR RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

1- Mark cut line on aft end of D2600-3-Bent using Jig DT 8150. Cut to length as per Dwg D2750. Deburr end

2-Drill pilot holes as per Dwg D2750 sheet 3 (D2750-1 details). Drill using drill Jig DT8150 &amp; DT8864 drilling holes labelled "B" only.

3- Mark fwd end for cutting using Drill Jig DT 8150 &amp; DT8864 and cut as per dwg D2750.

*06.06.08* ①

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Design Mgr	Approval QC Inspector
			Initial Design Mgr	Action Description Design Mgr	Sign & Date			
060608	4.	1st hole opened at 2974t the most find was plate location. New hole size: 250. Human error.	JB	fill hole with weld AS per QSI 018 i. grind flush. drill AS per dwg	pmc 06-06-09	06-06-13	JB 06-06-09	06-06-08

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes ☒ No ☐ DQA: ☒ Date: 06/07/09

NOTE: Date &amp; initial all entries

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Machine Or Operation:

Description:

4-Drill pilot holes for Detail B using DT8330

*Pm 06-06-08 ①*

5-Drill pilot holes for wearplates as per Dwg D2750 using DT8108 and open to 0.250" \*\*\*Make sure that wearplate holes are on bottom of tube\*\*\*\*\*

*Pm 06-06-08 ①*

6-Open up holes of Detail A to 0.250" (total of 2 holes per side)

*Pm 06-06-09 ①*

7- Countersink all fwd wearshoe holes (total of 19 holes per side) DO NOT C'SINK THE LAST AFT HOLES (total of 2 per side for blade fitting) as per dwg D2750.

*Pm 06-06-09 ①*

8-Countersink Detail A as per dwg D2750.

*Pm 06-06-09 ①*

9-Weld D2744 Cap as per Dwg D2750 and QSI 004. Fill grooves in bend left from bending as per QSI 004  
A/R Aluminum Rod

*M 19101 BE 06-06-09 ①*

10-Grind welds flush as per Dwg D2750

*BE 06-06-12 ①*

5.0 QC6/9

WELD INSPECTION

*QC 9-7 ID 06-06-12 ①*

*QC 6/9*



*06-06-13 ①*

Comment: WELD INSPECTION

6.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Chemical Conversion Coat as per QSI 005 4.1

*BE 06-06-14*

7.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION



Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION

*BE 06-06-14*

8.0

D2739

350 I Beam



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Web

Batch: *626498 BE 06-06-16*

9.0

D34901

CROSS BOLT SPACER



Comment: Qty.: 4.0000 Each(s)/Unit Total: 4.0000 Each(s)

Crossbolt spacer

Batch: *826307 BE 06-06-19*

## WORK ORDER CHANGES

STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector
06-13 5	QC619 permanent change <i>[Signature]</i>					<i>[Signature]</i> a.u.s

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Design Mgr	Approval QC Inspector
			Initial Design Mgr	Action Description Design Mgr	Sign & Date			

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 350 SKIDTUBE ASSEMBLY RH

Job Number: 27353

Part Number: D350636014

Job Number:



Seq. #:

Machine Or Operation:

Description :

10.0

D34905

CROSS BOLT SPACER



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

Crossbolt spacer

Batch: *M26309 BE 06-06-19*

11.0

D2743

Crossbolt Spacer



Comment: Qty.: 8.0000 Each(s)/Unit Total : 8.0000 Each(s)

Crossbolt Spacer

Batch: *B25838 BE 06-06-19*

12.0

LANDING GEAR 1

LANDING GEAR RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

1-Open up holes for Detail B, "hole size W" and blade fitting location holes to 0.500" (total of 9 holes per side) as per dwg D2750 .

2-Open up holes "size X" (total of 4 holes per side) as per dwg D2750

3-Open up holes of Detail V & Detail C to 0.625" (total of 8 holes per side) as per dwg D2750.

4-Chamfer holes of Detail V, Detail C, hole size "W" and "X" per dwg D2750 (welding instructions on sheet 5)

5-Deburr and blow out all chips from inside of tube

6-Bond web D2739 in place as per QSI 015

A/R

Sikaflex-291

batch: *101173*

exp. date: *06-11-01* *8T 06-06-16*

7- Weld spacers D3490-1, D3490-5 and D2743 as per dwg D2750 & QSI004

(welding instructions on sheet 5)

A/R

Aluminum Rod

batch: *M100660 BE 06-06-19*

8-Grind welds flush as per Dwg D2750

9-Spot face ground handling holes section J-J (total of 4 places per side) as per dwg D2750

10-Deburr holes

*pm 06-06-16*  
*(1)*

*DP*  
*06-06-27*

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Job Number:



Seq. #:

Machine Or Operation:

Description :

13.0

QC5/9

WELD INSPECTION



QC9 → PD 06-06-27 ①



Comment: Inspect weld and work to Step 20

14.0

POWDER COATING

POWDER COATING



Comment: POWDER COATING

Powder Coat Gloss White (Ref. 4.3.5.1) as per Dart QSI 005 4.3

a.m 06-07-11 ①

15.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION



Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION

Inspect for foreign object per QSI 024

De 06/07/11 ①

16.0

D26483

Wearpad



Comment: Qty.: 5.0000 Each(s)/Unit Total : 5.0000 Each(s)

Wearpad

Batch: B25904

17.0

D265613

Wearplate



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Wearplate

Batch: B25914

18.0

D265635

Wearplate



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Wearplate

Batch: B24148

19.0

D2746

Wearshoe



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Wearplate

Batch: B25841

PL 06/07/11 ①

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Job Number: 27353

Part Number: D350636014

Job Number:



Seq. #:

Machine Or Operation:

Description :

20.0

D2745

Bushing



Comment: Qty.: 8.0000 Each(s)/Unit Total : 8.0000 Each(s)

Bushing

Batch: B 27187

21.0

D3488042

BLADE FITTING ASSEMBLY, RH



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Blade Fitting, LH

Batch: B26839

22.0

D3492041

PLUG ASSEMBLY



Comment: Qty.: 8.0000 Each(s)/Unit Total : 8.0000 Each(s)

PLUG ASSEMBLY

Batch: B26304

23.0

D3492045

PLUG ASSEMBLY



Comment: Qty.: 8.0000 Each(s)/Unit Total : 8.0000 Each(s)

PLUG ASSEMBLY

Batch: B26306

24.0

~~AN835A~~

Bolt



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Bolt

Batch: \_\_\_\_\_

25.0

~~AN960JD816~~

1/2" washer, Alum



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Washer

Batch: \_\_\_\_\_

W/O:		WORK ORDER CHANGES					
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Drawing Name: 350 SKIDTUBE ASSEMBLY RH

Job Number: 27353

Part Number: D350636014

Job Number:



Seq. #:

Machine Or Operation:

Description :

26.0

~~AMS21083N8~~

Nut



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Nut

Batch: \_\_\_\_\_

27.0

~~ALS41032225~~

Insert



Comment: Qty.: 46.0000 Each(s)/Unit Total : 46.0000 Each(s)

Insert

Batch: \_\_\_\_\_

28.0

~~AN300D10L~~

Washer



Comment: Qty.: ~~42.0000~~ Each(s)/Unit Total : ~~42.0000~~ Each(s)

washer

Batch: M101224

29.0

AN3C5A

Bolt



Comment: Qty.: 38.0000 Each(s)/Unit Total : 38.0000 Each(s)

Bolt

Batch: M100186

30.0

AN3C6A

BOLT



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

Bolt

Batch: M19522

31.0

AN3C7A

BOLT



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

BOLT

Batch: M101124

32.0

AN6C44A

BOLT



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

BOLT

Batch: M195141

PL 06/07/11 (1)

W/O:		WORK ORDER CHANGES						
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NOTE: Date & initial all entries

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Drawing Name: 350 SKIDTUBE ASSEMBLY RH

Job Number: 27353

Part Number: D350636014

Job Number:



Seq. #:

Machine Or Operation:

Description :

33.0

AN8C35A

BOLT



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

BOLT

Batch: M101261

34.0

AN960C10L

washer



Comment: Qty.: ~~40~~ 0.0000 Each(s)/Unit Total : ~~40~~ 0.0000 Each(s)

washer

Batch: M18822

35.0

AN960C816L

WASHER



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

WASHER

Batch: M100186

36.0

MS210436

NUT



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

NUT

Batch: M19185

37.0

MS21083C8

NUT



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

NUT

Batch: M100186

38.0

NAS1330S3KB166

INSERT



Comment: Qty.: 42.0000 Each(s)/Unit Total : 42.0000 Each(s)

INSERT

Batch: M100199

39.0

NAS1515H3L

WASHER



Comment: Qty.: 46.0000 Each(s)/Unit Total : 46.0000 Each(s)

WASHER

Batch: M100186

PC 06/07/11 (1)

W/O:		WORK ORDER CHANGES					
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Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

NOTE: Date & initial all entries

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Date: Monday, 6/5/2006 7:45:50 AM  
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## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 350 SKIDTUBE ASSEMBLY RH

Job Number: 27353

Part Number: D350636014

Job Number:



Seq. #:

Machine Or Operation:

Description :

40.0

NAS1515H8L

WASHER



Comment: Qty.: 10.0000 Each(s)/Unit Total : 10.0000 Each(s)

WASHER

Batch: M100187

DL 06/07/11 (1)

41.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

1-Install inserts as per dwg D2750

DL 06/07/11 (1)

42.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

DL 06/07/11 (1)

43.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

1-Spray inside of tube with "LPS-3" batch: M101192

P70

2-Install blade fitting D3488-041, wearshoes and ground handling hardware as per dwg D2750

3-Coat all exposed fasteners with "LPS Procyon" batch: M17168

DL 06/07/11 (1)

44.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

DL 06-07-12 (1)

45.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Pick Packing Kit

46.0

D2741

Blade



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Blade

Batch: B25938

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector	
06/07/11	43.2	Add QC5 inspection for inserts	<i>MJ</i>	06/07/11	1		<i>[Signature]</i> 06/07/12	

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Job Number: 27353

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Job Number:



Seq. #:

Machine Or Operation:

Description :

47.0

AN960C816L

WASHER



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Washer

Batch: M100186

48.0

MS21083C8

NUT



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Nut

Batch: M100186

49.0

AN8C21A

BOLT



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Bolt

Batch: M100262

50.0

NAS1515H8L

WASHER



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

WASHER

Batch: M100187

51.0

D34931

WASHER



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

WASHER

Batch: 826004

52.0

QC4

INSPECT 100% KITS FOR COMPLETENESS



Comment: INSPECT 100% KITS FOR COMPLETENESS

53.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Package as per PPP D350-636-014

Rev. D

AL 06/07/12 (1)

W/O:		WORK ORDER CHANGES					
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Machine Or Operation:

Description :

54.0

DC

DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Inspection Level 21

*06/07/13*

Job Completion



*Li 06.07.12*

W/O:		WORK ORDER CHANGES					
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NOTE: Date & initial all entries

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

**DART****RELEASED**  
06-02-07

DESIGN <i>P/H</i>	DRAWN BY <i>P/H</i>	<b>DART AEROSPACE USA, INC.</b> PORT HADLOCK, WA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D2750	REV. D SHEET 1 OF 5
DATE 06.01.05		TITLE 350 SKIDTUBE ASSEMBLY SCALE NTS	
A	98.04.16	NEW ISSUE	
B	98.09.01	CHANGE MS24694-S293 TO AN8-16A	
C	98.11.18	ADD D2750-3/D2750-4 INCORPORATE D2738 AND D2740	
D	06.01.05	ADD HOLES AND SPACERS FOR APICAL FLOATS INCORPORATE DEO 9133/9157	

Qty -041	Qty -042	Qty -043	Qty -044	Part Number	Description
X				D2750-041	SKIDTUBE ASSEMBLY, LH
	X			D2750-042	SKIDTUBE ASSEMBLY, RH
		X		D2750-043	SKIDTUBE ASSEMBLY, LH
			X	D2750-044	SKIDTUBE ASSEMBLY, RH
5	5	5	5	D2648-3	WEARPAD
1	1	1	1	D2656-13	WEARSHOE
1	1	1	1	D2656-35	WEARSHOE
1	1	1	1	D2746	WEARSHOE
1	1	1	1	D2739	WEB
1	1	1	1	D2741	BLADE
8	8	8	8	D2743	SPACER
1	1	1	1	D2744	CAP
8	8	8	8	D2745	BUSHING
1				D2750-1	SKIDTUBE WELDMENT, LH
	1			D2750-2	SKIDTUBE WELDMENT, RH
		1		D2750-3	SKIDTUBE WELDMENT, LH
			1	D2750-4	SKIDTUBE WELDMENT, RH
1		1		D3488-041	BLADE FITTING, LH
	1		1	D3488-042	BLADE FITTING, RH
4	4	4	4	D3490-1	SPACER
4	4			D3490-3	SPACER
		4	4	D3490-5	SPACER
8	8	8	8	D3492-041	PLUG ASSEMBLY
8	8			D3492-043	PLUG ASSEMBLY
		8	8	D3492-045	PLUG ASSEMBLY
38	38	38	38	AN3C5A	BOLT
4	4	4	4	AN3C6A	BOLT
4	4	4	4	AN3C7A	BOLT
4	4	4	4	AN6C44A	BOLT
2	2	2	2	AN8C21A	BOLT
1	1	1	1	AN8C35A	BOLT
46	46	46	46	AN960C10L	WASHER
4	4	4	4	AN960C816L	WASHER
4	4	4	4	MS21043-6	NUT
3	3	3	3	MS21083C8	NUT
42	42	42	42	NAS1330S3KB166	INSERT
46	46	46	46	NAS1515H3L	WASHER
12	12	12	12	NAS1515H8L	WASHER

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CHECKED PH	APPROVED PH	DRAWING NO. D2750	REV. D SHEET 2 OF 5
DATE 06.01.05		TITLE 350 SKIDTUBE ASSEMBLY	SCALE NTS

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06.02.07

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN INCHES
2. TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
3. MAKE FROM D2600-3 EXTRUSION (INITIAL LENGTH = 120.0).
4. DAMAGE TOLERANCE ON BENDING:  
THERE SHOULD BE NO VISIBLE WRINKLES IN THE BEND FROM THE GROUND TO A HEIGHT OF 12 INCHES ABOVE THE GROUND. NO GOUGING IS ACCEPTABLE IN THE FLAT PORTION OF THE TUBE. GOUGES UP TO 0.020 ARE ACCEPTABLE IN THE BENT PORTION OF THE TUBE. TUBE O.D. SHOULD BE  $3.150 \pm 0.010$  IN THE FLAT PORTION OF THE TUBE. TUBE O.D. SHOULD BE  $3.15 \pm 0.030$  IN THE BENT PORTION OF THE TUBE.
5. ALL HOLES DRILLED ON CENTERLINES EXCEPT THOSE NOTED BY SECTIONS E-E, F-F, AND R-R.
6. WELDING TO BE DONE PER DART QSI 004.
7. FINAL CONFIGURATION SHOULD HAVE THE FOLLOWING MINIMUM MECHANICAL PROPERTIES:  
MINIMUM YIELD TENSILE STRENGTH = 35 ksi  
MINIMUM ULTIMATE TENSILE STRENGTH = 38 ksi
8. FINISH:  
ACID ETCH, ALODINE ASSEMBLY PER DART QSI 005 4.1 PRIOR TO INSTALLING D2739 WEB.  
POWDER COAT WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3  
BLACK ANTI-SKID PAINT AS INDICATED TO 1.0 ABOVE SKIDTUBE CENTER-LINE PER DART 005 4.4 (OPTIONAL).
9. INSTALL NAS1330S3KB166 INSERTS AFTER FINISH AS INDICATED IN D2750-1/-2/-3/-4 WELDING DETAIL ON PAGE 4 AND 5. DRILL 'E' SIZE HOLES ( $\emptyset 0.250$ -  $\emptyset 0.257$ ) FOR WEARSHOE INSERTS. C'SINK  $\emptyset 0.391 \times 100^\circ$  AND INSTALL INSERTS
10. D3488-041 (OR D3488-042) BLADE FITTING AND AN3-5A/AN3-7A WEARSHOE SCREWS TO BE INSTALLED USING SIKAFLEX-241 (OR EQUIVALENT) SEALANT.
11. SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.
12. APPLY A LAYER OF SIKAFLEX -241/-291 ADHESIVE BETWEEN THE BOTTOM OF THE SKIDTUBE ASSEMBLY AND THE WEARPLATES

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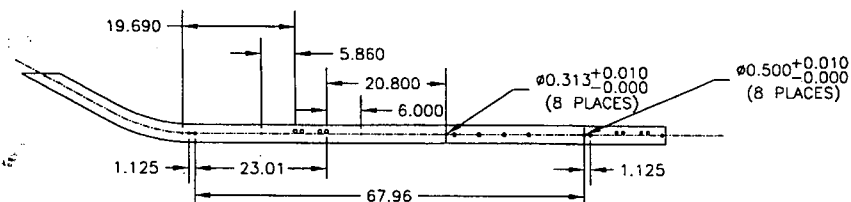
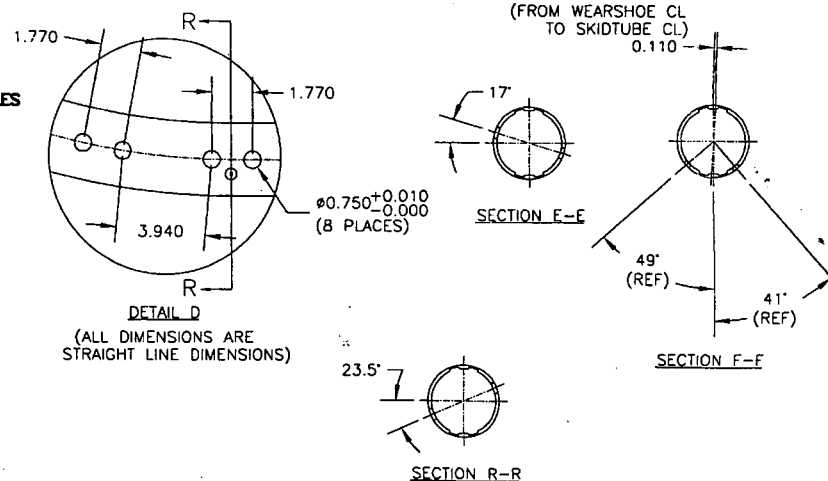
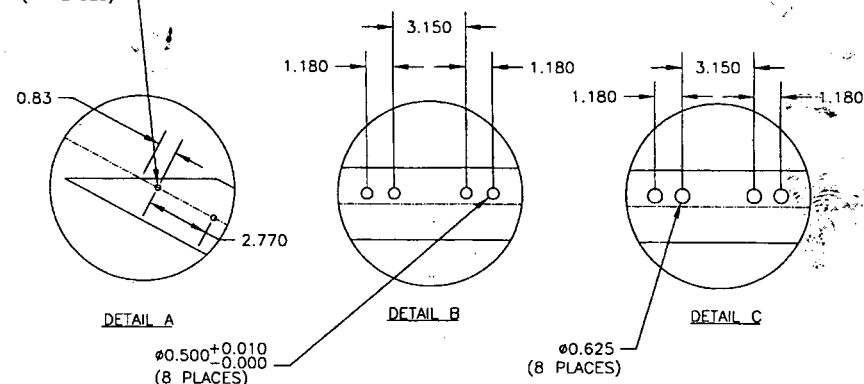
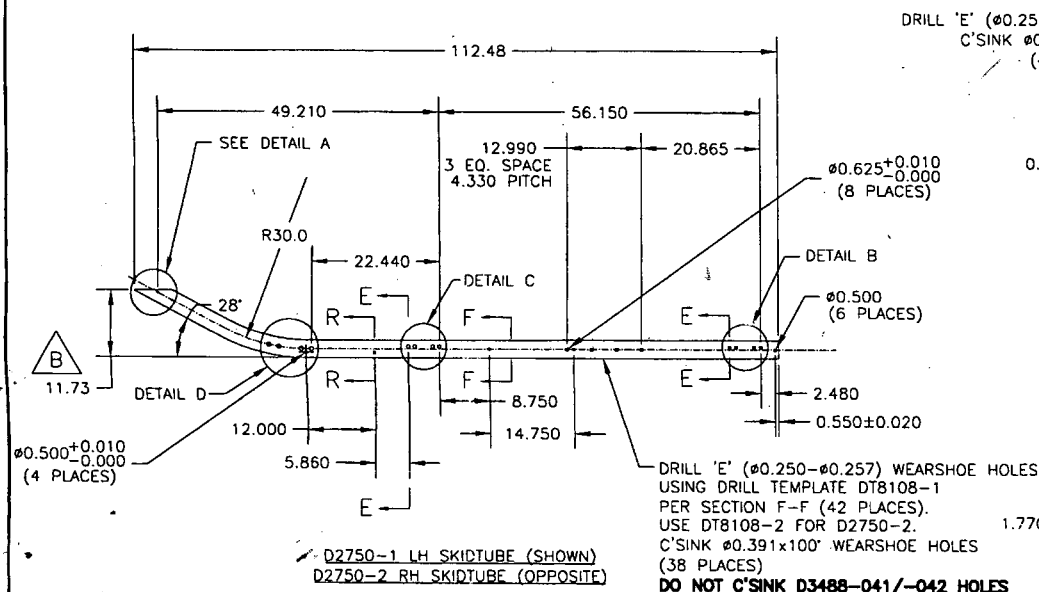
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D2750-3 LH SKIDTUBE (SHOWN)  
D2750-4 RH SKIDTUBE (OPPOSITE)  
D2750-3/-4 AND D2750-1/-2 HAVE THE SAME SADDLE AND  
GROUND HANDLING HOLES

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		TITLE	350 SKIDTUBE ASSEMBLY
		REV. D	SHEET 3 OF 5
		SCALE	1:20

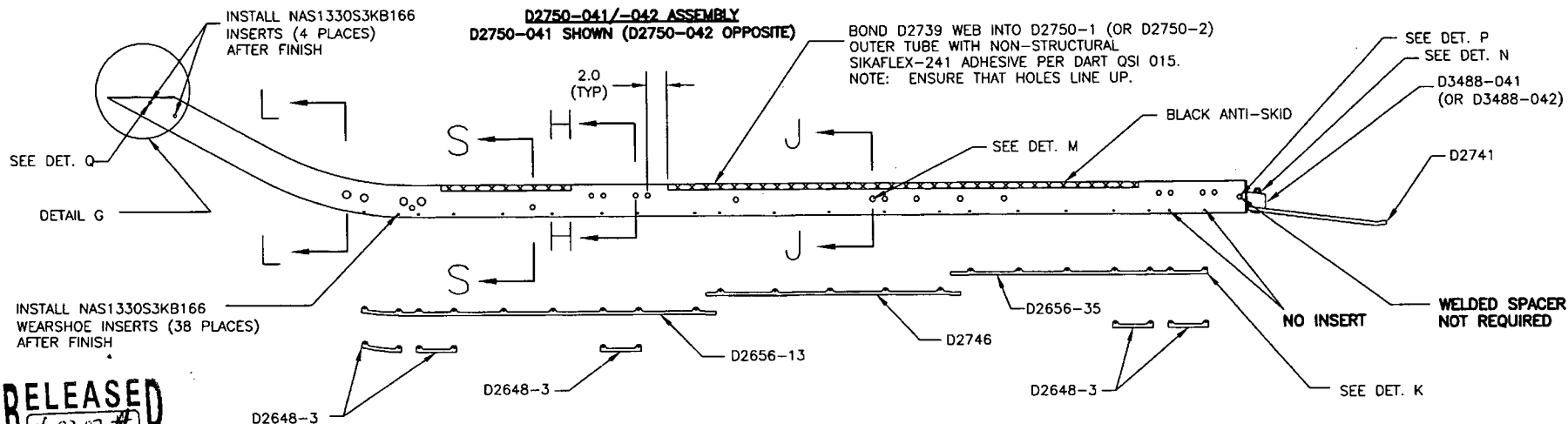
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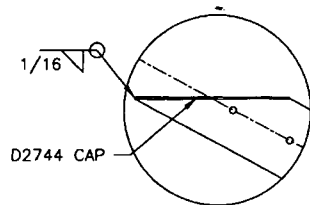


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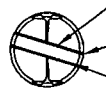
**D2750-041/-042 ASSEMBLY**  
**D2750-041 SHOWN (D2750-042 OPPOSITE)**



**DETAIL G**

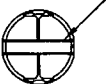


**SECTION H-H**



(TYP)

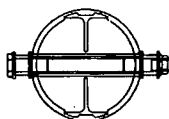
**SECTION J-J**



**WELDING INSTRUCTIONS**

1. CHAMFER HOLE 0.050 X 45°
2. INSERT D2743 SPACER
3. WELD INTO PLACE
4. GRIND FLUSH
5. DRILL OUT SPACER TO Ø0.484
6. SPOT FACE Ø0.750 (SECTION J-J ONLY)

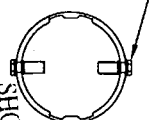
**DETAIL M**



- AN6-44A BOLT (1)
- D2745 BUSHING (2)
- NAS1515H8L WASHER (2)
- MS21043-6 NUT (1)
- (4 PLACES)

**NOTE: INSTALL WASHER BETWEEN SKIDTUBE AND BUSHING**

**DETAIL Q**



- AN3C6A BOLT (1)
- AN960C10L WASHER (1)
- NAS1515H3L WASHER (1)
- (4 PLACES)

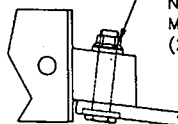
**SECTION L-L**

D3490-3 SPACER

Ø0.750 HOLES ONLY

D3492-043 PLUG ASSEMBLY

**DETAIL N**



- AN8C21A BOLT (1)
- AN960JD816L WASHER (1)
- NAS1515H8L WASHER (1)
- MS21083C8 NUT (1)
- (2 PLACES)

**SECTION S-S**

D3490-1 SPACER

Ø0.500 HOLES ONLY

D3492-041 PLUG ASSEMBLY

**WELDING INSTRUCTIONS**

1. CHAMFER HOLE 0.050 X 45°
2. INSERT D3490-1 SPACER (4 PLACES) INTO Ø0.500 HOLES OR INSERT D3490-3 SPACER (4 PLACES) INTO Ø0.750 HOLES
3. WELD INTO PLACE
4. GRIND FLUSH
5. INSERT D3492-041 PLUG ASSEMBLY (8 PLACES) INTO D3490-1 SPACER OR INSERT D3492-043 PLUG ASSEMBLY (8 PLACES) INTO D3490-3 SPACER ON BOTH ENDS

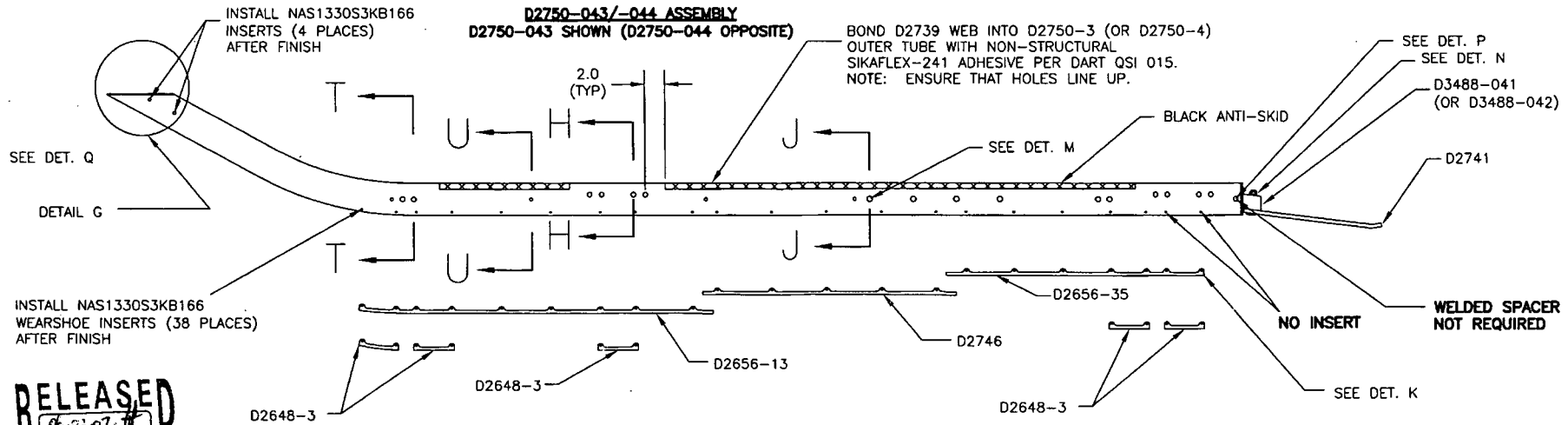
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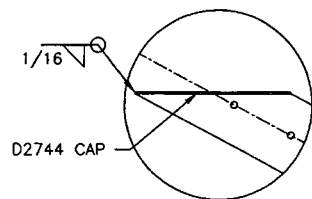
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**D2750-043/-044 ASSEMBLY**  
**D2750-043 SHOWN (D2750-044 OPPOSITE)**

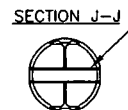
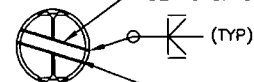


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 06.01.05

**DETAIL G**



**SECTION H-H**



**WELDING INSTRUCTIONS**

1. CHAMFER HOLE 0.050 X 45°
2. INSERT D2743 SPACER
3. WELD INTO PLACE
4. GRIND FLUSH
5. DRILL OUT SPACER TO Ø0.484
6. SPOT FACE Ø0.750 (SECTION J-J ONLY)

**SECTION T-T**



Ø0.500 HOLES ONLY

D3492-041 PLUG ASSEMBLY

**SECTION U-U**



Ø0.313 HOLES ONLY

D3492-045 PLUG ASSEMBLY

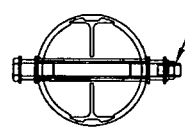
**DETAIL K**



USE AN3C7A BOLTS FOR INSTALLING AFT D2648-3 WEARPAD (4 PLACES)

AN3C5A BOLT (1)  
 AN960C10L WASHER (1)  
 NAS1515H3L WASHER (1)  
 MS21083C8 NUT (1)

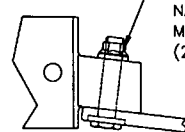
**DETAIL M**



AN6C44A BOLT (1)  
 D2745 BUSHING (2)  
 NAS1515H8L WASHER (2)  
 MS21043-6 NUT (1)  
 (4 PLACES)

**NOTE: INSTALL WASHER BETWEEN SKIDTUBE AND BUSHING**

**DETAIL N**

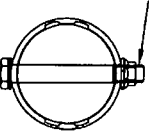


AN8C21A BOLT (1)  
 AN960JD816L WASHER (1)  
 NAS1515H8L WASHER (1)  
 MS21083C8 NUT (1)  
 (2 PLACES)

**WELDING INSTRUCTIONS**

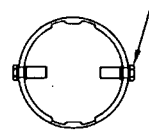
1. CHAMFER HOLE 0.050 X 45°
2. INSERT D3490-5 SPACER (4 PLACES) INTO Ø0.313 HOLES OR INSERT D3490-1 SPACER (4 PLACES) INTO Ø0.500 HOLES
3. WELD INTO PLACE
4. GRIND FLUSH
5. INSERT D3492-045 PLUG ASSEMBLY (8 PLACES) INTO D3490-5 SPACER OR INSERT D3492-041 PLUG ASSEMBLY (8 PLACES) INTO D3490-1 SPACER ON BOTH ENDS

**DETAIL P**



AN8C35A BOLT (1)  
 AN960C816L WASHER (2)  
 NAS1515H8L WASHER (2)  
 MS21083C8 NUT (1)

**DETAIL Q**



AN3C6A BOLT (1)  
 AN960C10L WASHER (1)  
 NAS1515H3L WASHER (1)  
 (4 PLACES)

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